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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/802,665	03/09/2001	Travis J. Parry	10007465-1	7530
7590	03/10/2006		EXAMINER	
HEWLETT-PACKARD COMPANY			PHAN, HUY Q	
Intellectual Property Administration			ART UNIT	PAPER NUMBER
P.O. Box 272400				
Fort Collins, CO 80527-2400			2687	

DATE MAILED: 03/10/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/802,665	PARRY, TRAVIS J.	
Examiner	Art Unit		
Huy Q. Phan	2687		

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

1)  Responsive to communication(s) filed on 01/17/2006.

2a)  This action is **FINAL**.                            2b)  This action is non-final.

3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

4)  Claim(s) 1-23 and 25 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5)  Claim(s) \_\_\_\_\_ is/are allowed.

6)  Claim(s) 1-23 and 25 is/are rejected.

7)  Claim(s) \_\_\_\_\_ is/are objected to.

8)  Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

9)  The specification is objected to by the Examiner.

10)  The drawing(s) filed on \_\_\_\_\_ is/are: a)  accepted or b)  objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a)  All    b)  Some \* c)  None of:  
1.  Certified copies of the priority documents have been received.  
2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

1)  Notice of References Cited (PTO-892)  
2)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3)  Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date .

4)  Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_ .

5)  Notice of Informal Patent Application (PTO-152)

6)  Other: \_\_\_\_ .

## DETAILED ACTION

### ***Response to Arguments***

1. In view of the APPEAL BREAFL filed on /2005, PROSECUTION IS HEREBY REOPENED. New grounds of rejection are set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

(1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,

(2) initiate a new appeal by filing a notice of appeal under 37 CFR 41.31 followed by an appeal brief under 37 CFR 41.37. The previously paid notice of appeal fee and appeal brief fee can be applied to the new appeal. If, however, the appeal fees set forth in 37 CFR 41.20 have been increased since they were previously paid, then appellant must pay the difference between the increased fees and the amount previously paid.

A Supervisory Patent Examiner (SPE) has approved of reopening prosecution by signing below:



EDWARD F. URBAN  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600

### ***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to

be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

**Claims 1-23 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Thomas (US-6,671,756) in view of Van Ryzin (US-6,131,130).**

Regarding claim 1, Thomas discloses a switching device (fig. 1, switch 2) comprising:

a transmitter and a receiver (col. 4, lines 10-13) operable to provide wireless communication ("a wireless connection in lieu of the CAT5 connection", see col. 2, lines 8-10) between the switching device and a peripheral device (fig. 1, keyboard 9, mouse 10), and the transmitter and the receiver operable to provide a second communication link between the switching device and a selected one of a plurality of available computing devices (described as "Switch 2 receives (receiver) the keyboard/mouse signals, makes appropriate translations, and delivers (transmitter) them to the selected computer 13A ", see col. 5, lines 55-60 and fig. 2);

a computer readable medium having instructions (fig. 8, elements 38-40; see col. 9, lines 62-col. 10, line 10) for:

maintaining a list of available computing devices (fig. 8, PCs 13 and col. 5, lines 2-9);

receiving a user communication selecting from among the list of available computing devices (col. 4, line 17-col. 5, line 20); and

utilizing the transmitter and the receiver to establish a first wireless link between the peripheral device and the switching device ("a wireless connection in lieu of the CAT5 connection", see col. 2, lines 8-10 and col. 4, lines 10-13) and the second communication link between the switching device and a computing device (described as "Switch 2 receives (receiver) the keyboard/mouse signals, makes appropriate translations, and delivers (transmitter) them to the selected computer 13A ", see col. 5, lines 55-60 and fig. 2) selected from the list of available computing devices (col. 4, line 52-col. 5, line 20);

a processor operable to execute the instructions (fig. 8, elements 38-40; see col. 9, lines 62-col. 10, line 10).

But, Thomas lacks to especially recite the second communication link is a wireless link. However, Van Ryzin teaches a wireless link between the switch (personal computer 2) and audio/video devices (described as "Wireless communication means transmits, via a wireless medium, wireless communications between the personal computer and the audio/video devices. Wireless peripheral means enters, remotely from the personal computer, wireless commands for controlling the audio/video devices. The wireless commands are communicated by the wireless communication means from the wireless peripheral means to the personal computer which generates signals for controlling the audio/video devices in accordance with the wireless commands. Coupling means couples, in accordance with the signals, the wireless communications to the wireless communication means for wireless transmission to the audio/video devices" see col. 2, lines 8-22). Since, Thomas and Van Ryzin

(col. 4, lines 20-30 and col. 6) are related to the method of using a switch to operate the selected device; therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Thomas as taught by Van Ryzin for purpose of offering advantageously the wireless technology to Thomas's system in order to avoid "the entire house be hardwired which is both tedious work and expensive to implement", see (col. 1, lines 24-27).

Regarding claim 10, Thomas discloses a computing system (fig. 8) comprising: multiple computing devices (fig. 8, PCs 13), each of which being configured for a second communication link;

one or more peripheral devices (fig. 1, keyboard 9, mouse 10) receive and/or transmit data ("a wireless connection in lieu of the CAT5 connection", see col. 2, lines 8-10); and

a switching device (fig. 1, switch 2) configured to:  
maintain a list of available computing devices from among the multiple computing devices (fig. 8, PCs 13 and col. 5, lines 2-9);

receive a user communication selecting from among the list of available computing devices (col. 4, line 17-col. 5, line 20); and

establish a first wireless link ("a wireless connection in lieu of the CAT5 connection", see col. 2, lines 8-10) between the peripheral device and the switching device (fig. 1) and the second communication link between the switching device and a computing device (described as "Switch 2 receives

(receiver) the keyboard/mouse signals, makes appropriate translations, and delivers (transmitter) them to the selected computer 13A", see col. 5, lines 55-60 and fig. 2) selected from the list of available computing devices enabling wireless user interaction (col. 4, line 17-col. 5, line 20).

But, Thomas lacks to especially recite the second communication link is a wireless link. However, Van Ryzin teaches a wireless link between the switch (personal computer 2) and audio/video devices (described as "Wireless communication means transmits, via a wireless medium, wireless communications between the personal computer and the audio/video devices. Wireless peripheral means enters, remotely from the personal computer, wireless commands for controlling the audio/video devices. The wireless commands are communicated by the wireless communication means from the wireless peripheral means to the personal computer which generates signals for controlling the audio/video devices in accordance with the wireless commands. Coupling means couples, in accordance with the signals, the wireless communications to the wireless communication means for wireless transmission to the audio/video devices" see col. 2, lines 8-22); therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Thomas as taught by Van Ryzin for purpose of offering advantageously the wireless technology to Thomas's system in order to avoid "the entire house be hardwired which is both tedious work and expensive to implement", see (col. 1, lines 24-27).

Regarding claim 16, Thomas discloses a computing system (fig. 8) comprising:

multiple computing devices (fig. 8, PCs 13), each of which being configured for a second communication link;

one or more peripheral devices (fig. 8, elements 3-10 and col. 7, line 42-col. 8, line 33) configured to wirelessly receive and/or transmit data ("a wireless connection in lieu of the CAT5 connection", see col. 2, lines 8-10) and linkable with the computing devices for data exchange (col. 11, lines 52-64); and

a switching device (fig. 8, switch 37 and col. 7, line 42-col. 8, line 33) configured to

wirelessly ("a wireless connection in lieu of the CAT5 connection", see col. 2, lines 8-10) receive and transmit (col. 4, lines 10-13) data from and to the peripheral and the second communication link with computing devices;

maintain a list of available computing devices from among the multiple computing devices (fig. 8, PCs 13 and col. 5, lines 2-9);

receive a user communication selecting from among the list of available computing devices (col. 4, line 17-col. 5, line 20); and

establish a first wireless link ("a wireless connection in lieu of the CAT5 connection", see col. 2, lines 8-10) between the one or more peripheral devices and the switching device (col. 4, lines 10-13) and the second communication link between the switching device and a computing device (fig. 8, PC 13 and col. 7, line 42-col. 8, line 33) selected from the list of available computing devices enabling wireless user interaction with the computing device (col. 4, line 52-col.

5, line 20). But, Thomas lacks to especially recite the second communication link is a wireless link. However, Van Ryzin teaches a wireless link between the switch (personal computer 2) and audio/video devices (described as "Wireless communication means transmits, via a wireless medium, wireless communications between the personal computer and the audio/video devices. Wireless peripheral means enters, remotely from the personal computer, wireless commands for controlling the audio/video devices. The wireless commands are communicated by the wireless communication means from the wireless peripheral means to the personal computer which generates signals for controlling the audio/video devices in accordance with the wireless commands. Coupling means couples, in accordance with the signals, the wireless communications to the wireless communication means for wireless transmission to the audio/video devices" see col. 2, lines 8-22); therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Thomas as taught by Van Ryzin for purpose of offering advantageously the wireless technology to Thomas's system in order to avoid "the entire house be hardwired which is both tedious work and expensive to implement", see (col. 1, lines 24-27).

Regarding claim 21, Thomas discloses a method of controlling multiple computing devices (fig. 8, PCs 13) utilizing a switching device (fig. 8, switch 37 and col. 7, line 42-col. 8, line 33), the method comprising:

establishing a first wireless link ("a wireless connection in lieu of the CAT5 connection", see col. 2, lines 8-10) with a peripheral device (fig. 1, keyboard 9, mouse 10);

maintaining a list of available computing devices (fig. 8, PCs 13 and col. 5, lines 2-9);

receiving data from a user (described as "Switch 2 receives (receiver) the keyboard/mouse signals, makes appropriate translations, and delivers (transmitter) them to the selected computer 13A", see col. 5, lines 55-60 and fig. 2), the data being associated with a user selection of an available computing devices from the list (col. 4, line 17-col. 5, line 20);

using the received data to select a computing device (col. 4, lines 17-53);

establishing a second communication link with the selected computing device (col. 4, line 52-col. 5, line 20); and

permitting the user to interact with the selected computing device via said first wireless link and second communication link. But, Thomas lacks to especially recite the second communication link is a wireless link. However, Van Ryzin teaches a wireless link between the switch (personal computer 2) and audio/video devices (described as "Wireless communication means transmits, via a wireless medium, wireless communications between the personal computer and the audio/video devices. Wireless peripheral means enters, remotely from the personal computer, wireless commands for controlling the audio/video devices. The wireless commands are communicated by the wireless communication means from the wireless peripheral means to the personal

computer which generates signals for controlling the audio/video devices in accordance with the wireless commands. Coupling means couples, in accordance with the signals, the wireless communications to the wireless communication means for wireless transmission to the audio/video devices" see col. 2, lines 8-22); therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Thomas as taught by Van Ryzin for purpose of offering advantageously the wireless technology to Thomas's system in order to avoid "the entire house be hardwired which is both tedious work and expensive to implement", see (col. 1, lines 24-27).

Regarding claim 2, Thomas and Van Ryzin disclose the switching device as recited in the rejection of claim 1. Thomas further discloses wherein the instructions for utilizing the transmitter and the receiver (col. 4, lines 10-13) include instructions (fig. 8, elements 38-40; see col. 9, lines 62-col. 10, line 38) for utilizing the transmitter and receiver to establish a wireless link ("a wireless connection in lieu of the CAT5 connection", see col. 2, lines 8-10) between the selected computing device and a plurality of peripheral devices (fig. 1, keyboard 9, mouse 10) that can be used by a user to interact with the selected computing device (col. 4, line 52-col. 5, line 20).

Regarding claims 3, 12 and 18, Thomas and Van Ryzin disclose all limitations as recited in the rejections of claims 2, 10 and 16, respectively. Thomas further discloses wherein said at least one peripheral device comprises

a keyboard (fig. 1, keyboard 9).

Regarding claims 4, 13 and 19, Thomas and Van Ryzin disclose all limitations as recited in the rejections of claims 2, 10 and 16, respectively. Thomas further discloses wherein said at least one peripheral device comprises a mouse (fig. 1, mouse 10).

Regarding claims 5, 14 and 20, Thomas and Van Ryzin disclose all limitations as recited in the rejections of claims 2, 10 and 16, respectively. Thomas further discloses wherein said at least one peripheral device comprises a display (fig. 1, video 8).

Regarding claims 6, 15 and 23, Thomas and Van Ryzin disclose all limitations as recited in the rejections of claims 2, 10 and 21, respectively. Thomas further discloses wherein said at least one peripheral device comprises one or more of a keyboard (fig. 1, keyboard 9), a mouse (fig. 1, mouse 10) and a display (fig. 1, video 8).

Regarding claim 7, Thomas and Van Ryzin disclose the switching device as recited in the rejection of claim 1. Van Ryzin further discloses wherein the transmitter and receiver are configured to establish a wireless link via BlueTooth (described as "in the present invention, wireless peripherals including wireless keyboard/mouse touchpad 8, wireless video monitor 10 and wireless

speakers/headphones 12 are also provided which communicate with wireless computer 2 via antenna 2a. The wireless signals are preferably RF signals or any such signals which are capable of passing through walls in the home such that the user may operate the audio/video devices from anywhere in the home" (see col. 3, lines 25-30).

Regarding claim 8, Thomas and Van Ryzin disclose the switching device as recited in the rejection of claim 1. Thomas further discloses wherein the transmitter and receiver comprise an integrated unit (fig. 3 and col. 6, lines 19-21).

Regarding claim 9, Thomas and Van Ryzin disclose the switching device as recited in the rejection of claim 1. Thomas further discloses further comprising a storage device (fig. 8, RAM 39 and EEROM 40) to maintain a list of available computing devices (col. 9, line 47-col. 10, line 10).

Regarding claims 11 and 17, Thomas and Van Ryzin disclose all limitations as recited in the rejections of claims 10 and 16, respectively. Thomas further discloses wherein the selected computing device is a desktop computer (fig. 8, PC 13) and wherein establishing a wireless link (inherently for "wireless connection"; see col. 2, lines 8-9) comprises establishing a wireless link between the peripheral device and the desktop computer (col. 4, lines 10-53).

Regarding claim 22, Thomas and Van Ryzin disclose the method as recited in the rejection of claim 21. Van Ryzin further discloses wherein said receiving comprises wirelessly receiving said data from the user (described as "Wireless communication means transmits, via a wireless medium, wireless communications between the personal computer and the audio/video devices. Wireless peripheral means enters, remotely from the personal computer, wireless commands for controlling the audio/video devices. The wireless commands are communicated by the wireless communication means from the wireless peripheral means to the personal computer which generates signals for controlling the audio/video devices in accordance with the wireless commands. Coupling means couples, in accordance with the signals, the wireless communications to the wireless communication means for wireless transmission to the audio/video devices" see col. 2, lines 8-22).

Regarding claim 25, Thomas discloses one or more readable media having instructions (fig. 8, elements 38-40; see col. 9, lines 62-col. 10, line 10) thereon which, when executed by a switching device (fig. 8, switch 37 and col. 7, line 42-col. 8, line 33), cause the switching device to:

establish a first wireless link ("a wireless connection in lieu of the CAT5 connection", see col. 2, lines 8-10) with a peripheral device (fig. 1, keyboard 9, mouse 10);

maintain a list of available computing devices (fig. 8, PCs 13 and col. 5, lines 2-9);

wirelessly receive data (col. 4, lines 10-13) from a user (described as "Switch 2 receives (receiver) the keyboard/mouse signals, makes appropriate translations, and delivers (transmitter) them to the selected computer 13A via cable 14 into ports 15", see col. 5, lines 55-60 and fig. 2), the data being associated with a user selection from the list of available computing devices (col. 4, line 52-col. 5, line 20);

use the received data to select said one computing device (col. 4, lines 37-53);

establish a second communication link (fig. 1) with the selected computing device (col. 4, line 52-col. 5, line 20); and

permit the user to interact with said one computing device (col. 4, lines 37-53) via said first wireless link and second communication link. But, Thomas lacks to especially recite the second communication link is a wireless link. However, Van Ryzin teaches a wireless link between the switch (personal computer 2) and audio/video devices (described as "Wireless communication means transmits, via a wireless medium, wireless communications between the personal computer and the audio/video devices. Wireless peripheral means enters, remotely from the personal computer, wireless commands for controlling the audio/video devices. The wireless commands are communicated by the wireless communication means from the wireless peripheral means to the personal computer which generates signals for controlling the audio/video devices in accordance with the wireless commands. Coupling means couples, in accordance with the signals, the wireless communications to the wireless

communication means for wireless transmission to the audio/video devices" see col. 2, lines 8-22); therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Thomas as taught by Van Ryzin for purpose of offering advantageously the wireless technology to Thomas's system in order to avoid "the entire house be hardwired which is both tedious work and expensive to implement", see (col. 1, lines 24-27).

### ***Conclusion***

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

a) Shirley claims claim 14 as "The KVM switch as claimed in claim 1, wherein the communications port comprises a wireless communications port" (see specification).

b) Angelico discloses that "FIG. 1 depicts a representative wireless network 100 suitable for implementing the present invention. A plurality of local area networks (LANs) 102 each interconnect a number of host computers 104 and a single wireless router system 106. The wireless router systems 106 in turn are interconnected by a regional network 108 to multiple points of presence (PoPs) 110 which serve as interconnects to a backbone network 112" (see specification).

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Huy Q Phan whose telephone number is 571-272-7924. The examiner can normally be reached on 8AM-6PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Eng can be reached on 571-272-7495. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Huy Q Phan

  
EDWARD F. URBAN  
RADIOTRONIC PATENT EXAMINER  
TECHNOLOGY CENTER 2600

Examiner: Phan, Huy Q.

AU: 2687

Date: 03/02/2006